

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
14 April 2005 (14.04.2005)

PCT

(10) International Publication Number
WO 2005/032564 A1

(51) International Patent Classification⁷: **A61K 35/14**,
A61M 1/34, 1/36

(21) International Application Number:
PCT/GB2004/004134

(22) International Filing Date:
28 September 2004 (28.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0322806.1 30 September 2003 (30.09.2003) GB

(71) Applicant (for all designated States except US): **LIFE-
FORCE GROUP PLC** [GB/GB]; Unit 35, Imperial
House, Imperial Science Park, Newport, Gwent NP10
8UH (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **SPIERS, William,
Arthur** [GB/GB]; Paradise Barn, 30, The Rank, North
Bradley, Wiltshire BA14 9RP (GB).

(74) Agent: **PRICE, Vincent, Andrew**; Price & Co., 6 Manor
Court, St Georges, Mill Lane, North Chailey, East Sussex
BN8 4EG (GB).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: **CELL BANK FOR CONTINGENT AUTOLOGOUS LEUKOCYTE TRANSPLANTATION**

(57) Abstract: A process for producing a leukocyte bank suitable for CAT therapy comprising the steps of providing a blood sample from a healthy donor individual; selectively separating leukocytes from the sample; collecting the separated leukocytes in a holding vessel; transferring two or more aliquots of the separated leukocytes to independent double containment storage vessels, wherein each of the storage vessels contains, or is in fluid communication with, a cryopreservation medium; mixing each aliquot with the cryopreservation medium within each storage vessel, cryogenically preserving each of the two or more aliquots within each of the storage vessels; retrievably depositing each of the two or more storage vessels containing the aliquots of preserved leukocytes into two or more independent storage systems to produce a leukocyte bank which exhibits deposit redundancy, wherein steps are conducted within a closed or functionally closed system and are applied iteratively to a series of blood samples from different healthy donor individuals. The process further comprises digitally storing information obtained from each donor individual in a digital information unit so as to permit matching of leukocyte deposit and donor for later autologous transplantation.



WO 2005/032564 A1